

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/049757 A1

(51) International Patent Classification⁷: **C09K 3/18**,
C09D 183/06, 5/33, C03C 17/30

(21) International Application Number:
PCT/AU2004/001622

(22) International Filing Date:
22 November 2004 (22.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003906427 21 November 2003 (21.11.2003) AU

(71) Applicant (for all designated States except US): **THE UNIVERSITY OF QUEENSLAND** [AU/AU]; ST LUCIA, QLD 4072 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HARVEY, Michael** [AU/AU]; c/- UniQuest Pty Ltd, Department of Physics, ST LUCIA, QLD 4067 (AU). **MEREDITH, Paul** [AU/AU]; c/- UniQuest Pty Ltd, Department of Physics, ST LUCIA, QLD 4067 (AU).

(74) Agent: **FISHER ADAMS KELLY**; Level 13, AMP Place, 10 Eagle Street, Brisbane, QLD 4001 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **SILICA FILMS AND METHOD OF PRODUCTION THEREOF**

(57) Abstract: A method of producing a silica coating by forming a silica precursor formulation that is coated on a substrate as a continuous liquid phase. The silica precursor formulation is then cured in an ammoniacal atmosphere to produce a continuous, interconnected, nano-porous silica network.

WO 2005/049757 A1